

```

proof_mass_coord_offset = 157.238 ; % science proof mass coordinate offset
R_ref=[0 ; 0.06 ; -64.93] % location of base of array
delt= [0 ;0; 1.41] % offset from base of array to optical center
R_oc=R_ref+delt % optical center of array
R_cg_BOL=[0.003; 0.003; 162.004-proof_mass_coord_offset] % beginning of life cg location
R_cg2oc_BOL=R_oc-R_cg_BOL % vector from cg to optical center @ BOL
R_cg_MOL=[0.003; 0.003; 162.353-proof_mass_coord_offset] % middle of life cg location
R_cg2oc_MOL=R_oc-R_cg_MOL % vector from cg to optical center @ MOL
R_cg_EOL=[0.004; 0.003; 162.743-proof_mass_coord_offset] % End of life cg location
R_cg2oc_EOL=R_oc-R_cg_EOL % vector from cg to optical center @ EOL

```

```
R_ref = [ 0 ; 0.0600 ; -64.9300]
```

```
delt = [ 0 ; 0 ; 1.4100]
```

```
R_oc = [ 0 ; 0.0600 ; -63.5200]
```

```
R_cg_BOL = [ 0.0030 ; 0.0030 ; 4.7660]
```

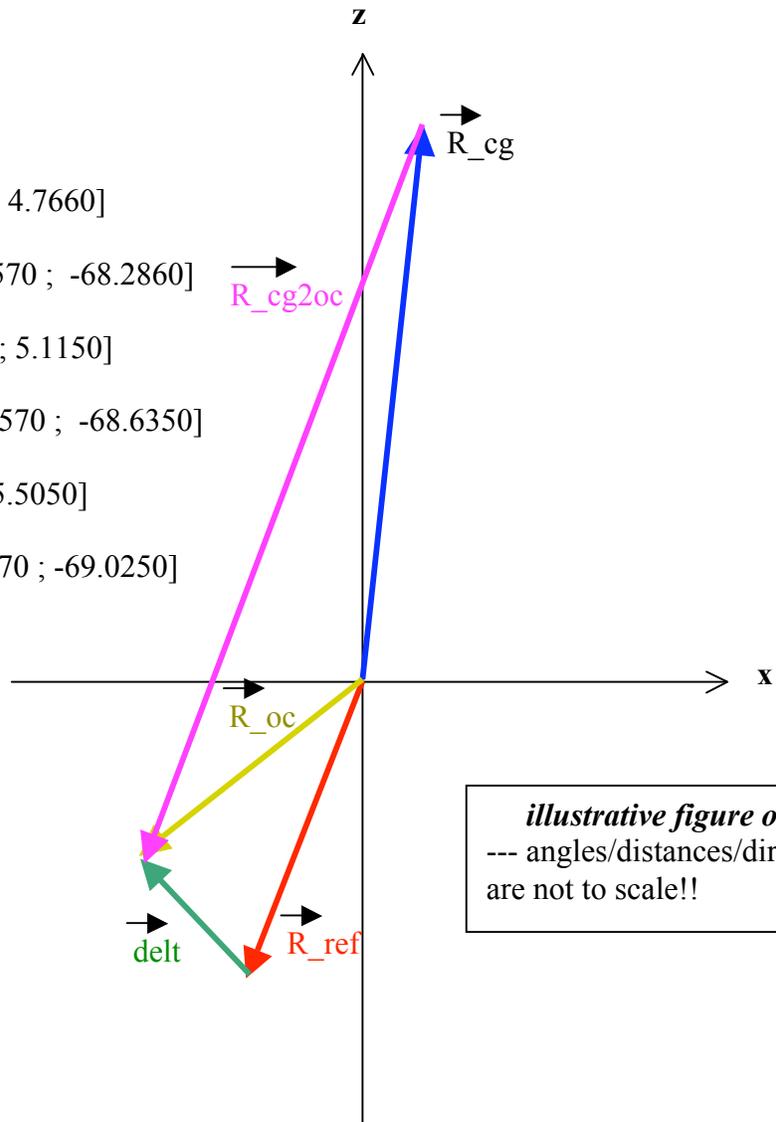
```
R_cg2oc_BOL = [ -0.0030 ; 0.0570 ; -68.2860]
```

```
R_cg_MOL = [ 0.0030 ; 0.0030 ; 5.1150]
```

```
R_cg2oc_MOL = [ -0.0030 ; 0.0570 ; -68.6350]
```

```
R_cg_EOL = [ 0.0040 ; 0.0030 ; 5.5050]
```

```
R_cg2oc_EOL = [ -0.0040 ; 0.0570 ; -69.0250]
```



illustrative figure only
 --- angles/distances/directions
 are not to scale!!

Where:

$$R_{oc} = R_{ref} + \text{delt}$$

$$R_{oc} = R_{cg} + R_{cg2oc} \implies R_{cg2oc} = R_{oc} - R_{cg}$$

==> **All distances are in inches**
 ==> **Array optical center is assumed to be along s/c z-axis**